

REMARKS

Claims 24-29, 31, 32, 35, 37-40, 42, 43, 80-86, 88-90, 92-94, 96 and 97 are pending. By this Amendment, claims 24, 40, 80, 86, 90 and 94 are amended, and claims 1, 3-5, 7, 8, 11, 13-17, 41, 44-58, 72-79, 87, 91 and 95 are cancelled. The features of previous claims 41, 87, 91 and 95 have been incorporated into independent claims 24, 80, 90 and 94, respectively. These features also are described, for example, in specification paragraphs [0027], [0073] - [0077] and [0092]. Claims 40 and 86 have been amended in view of the amendments to the independent claims. Thus, no new matter is added by the above amendments.

Claims 1, 44 and 54 stand rejected under 35 U.S.C. §102(b) over U.S. Patent No. 3,605,426 to Chao et al. or U.S. Patent No. 1,944,726 to Aiken. Claims 1, 3-5, 7, 8, 11, 13-15, 44, 54-58 and 72-78 stand rejected under 35 U.S.C. §102(b) over U.S. Patent No. 4,761,314 to Marshall. Claims 1, 16, 24-27, 29, 31, 32, 35, 37, 44, 46, 72 and 79 stand rejected under 35 U.S.C. §102(b) over U.S. Patent No. 4,104,883 to Naef. Claims 1 and 17 stand rejected under 35 U.S.C. §102(a) over U.S. Patent No. 6,497,116 to Noel. Claims 24 and 80-83 stand rejected under 35 U.S.C. §102(b) over U.S. Patent No. 3,596,713 to Katz. Claims 28, 38 and 39 stand rejected under 35 U.S.C. §103(a) over Naef in view of Marshall. Claim 53 stands rejected under 35 U.S.C. §103(a) over Marshall in view of U.S. Patent No. 5,560,856 to Dobry. These rejections are moot in view of either the cancellation of claims or the incorporation of the features of claims 41, 87, 91 and 95 into claims 24, 80, 90 and 94, respectively.

Claims 40-43 and 86-97 stand rejected under 35 U.S.C. §103(a) over U.S. Patent No. 3,596,713 to Katz in view of U.S. Patent No. 5,770,899 to Hayashi. This rejection is respectfully traversed.

As noted above, remaining independent claims 24, 80, 90 and 94 have been amended to incorporate the feature, previously recited in claims 41, 87, 91 and 95 (included in this

rejection), of setting a mixing ratio of the first component to the second component according to an amount of heat generated by the object, the second component being mixed with the first component according to that mixing ratio. The Office Action does not address this feature in the rejection, and neither Katz nor Hayashi discloses or suggests this feature.

Katz discloses designing the particles 6 in order to attain a desired preset temperature. See, for example, col. 2, lines 45-49 and col. 3, lines 45-63. Katz does not disclose or suggest setting a mixing ratio of the first component to the second component according to the amount of heat generated by the object or coil that is to be temperature-controlled. Hayashi merely discloses circulating a fluid through a linear motor, and thus does not disclose or suggest setting a mixing ratio of a first component to a second component (that is, Hayashi does not disclose a coolant comprised of the claimed first and second components). Thus, the combination of Katz and Hayashi does not disclose or suggest the combinations of features recited in independent claims 24, 80, 90 and 94. U.S. Patent No. 4,104,883 to Naef, which was used to reject independent claim 24 (but not claim 41) also does not disclose or suggest setting a mixing ratio of a first component to a second component according to an amount of heat generated by the object that is to be temperature-controlled.

Accordingly, independent claims 24, 80, 90 and 94, as well as their dependent claims, are patentable. Withdrawal of the rejection is requested.

Claims 84 and 85 stand rejected under 35 U.S.C. §103(a) over Katz in view of Dobry. These claims are patentable for at least the reasons set forth above with respect to their corresponding independent claim 80. Withdrawal of the rejection is requested.

In view of the foregoing, Applicants respectfully submit that this application is in condition for allowance. Favorable reconsideration and prompt allowance are earnestly solicited.

Should the Examiner believe that anything further would be desirable in order to place this application in even better condition for allowance, the Examiner is invited to contact Applicants' undersigned attorney at the telephone number listed below.

Respectfully submitted,



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